

Form PTO-1449
(REV. 7-92)U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket Number

Serial No. 09/211,879

INFORMATION DISCLOSURE STATEMENT**BY APPLICANT**

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MAY 12 1999

GROUP 1700

NOXTECH-01B

Applicant(s): Sudduth, et al.

Filing Date: December 14, 1998

Group Art Unit: 1764

1754

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Jaw	5	4	4	0	8	7	6	8/1995	Bayliss et al.	60	274	
Jaw	5	1	4	7	5	1	6	9/1992	Mathur et al.	204	177	
Jaw	5	2	4	0	5	7	5	8/1993	Mathua et al.	204	177	
Jaw	5	4	5	8	7	4	8	10/1995	Breault et al.	204	177	
Jaw	4	8	6	7	9	5	3	09/89	Riekert et al.	423	239	02/86
Jaw	4	7	1	9	0	9	4	01/88	Riekert et al.	423	239	08/85
Jaw	4	6	7	8	6	4	3	07/87	Fetzer	422	175	02/85
Jaw	4	6	0	2	6	7	3	07/86	Michelfelder et al.	165	7	10/84
Jaw	5	5	1	0	0	9	2	04/96	Mansour, et al.	423	239.1	
Jaw	5	1	3	9	7	5	4	08/92	Lufiglass et al.	423	235	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
Jaw	wo	89	0	8	6	0	6	09/89	World	—	—	YES	NO
Jaw	wo	93	0	3	9	9	8	03/93	World	—	—		
Jaw	2	2	6	8	8	1	1A	11/90	Japan	—	—		
Jaw	2	2	5	8	0	1	8A	10/90	Japan	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Jaw	Mizuno, et al.; "APPLICATION OF A CORONA TECHNOLOGY IN THE REDUCTION OF GREENHOUSE GASES AND OTHER GASEOUS POLLUTANTS"; Non-Thermal Plasma Techniques for Pollution Control-Part B: Electron Beam and Electrical Discharge; Springer-Verlag, Heidelberg 1993 pgs. 165-185
Jaw	Gentile, et al.; "MICROSTREAMER INITIATED ADVECTION IN DIELECTRIC BARRIER DISCHARGES FOR PLASMA REMEDIATION OF N_xO_y : SINGLE AND MULTIPLE STREAMERS"; Proceedings of the 1995 Diesel Engine Emissions Reduction Workshop, Univ. of California, San Diego July 24-27; pgs. V45-V56
Jaw	Chess, et al.; "PLASMA VERSUS THERMAL EFFECTS IN FLUE GAS NO_x REDUCTION USING AMMONIA RADICAL INJECTION"; Journal of Air & Waste Management Association, August 1995, vol. 45, pgs. 627-632
Jaw	Vogtlin, et al.; "PULSED CORONA DISCHARGE FOR REMOVAL OF NO_x FROM FLUE GAS"; Non-Thermal Plasma Techniques for Pollution Control-Part B: Electron Beam and Electrical Discharge; Springer-Verlag, Heidelberg 1993 pgs. 187-197
Jaw	Fujii, et al.; "SIMULTANEOUS REMOVAL OF NO_x , CO_x , SO_x AND SOOT IN DIESEL ENGINE EXHAUST"; Non-Thermal Plasma Techniques for Pollution Control-Part B: Electron Beam and Electrical Discharge; Springer-Verlag, Heidelberg 1993 pgs. 257-279
Jaw	Wallman, et al.; "NONTHERMAL AFTER TREATMENT OF DIESEL ENGINE EXHAUST"; Proceedings of the 1995 Diesel Engine Emissions Reduction Workshop, Univ. of California, San Diego July 24-27; pgs. V33-V39

EXAMINER

Timothy Varnoy

DATE CONSIDERED

14 June 1999

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Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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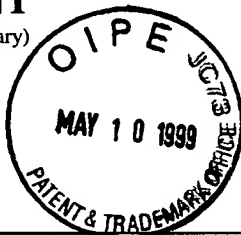
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Jew	5	0	5	7	2	9	3	10/91	Epperly et al.	423	235	
Jew	5	0	4	8	4	3	2	09/91	Hofmann et al.	110	345	
Jew	5	0	4	7	2	1	9	09/91	Epperly et al.	423	235	
Jew	5	0	1	7	3	4	7	05/91	Epperly et al.	423	235	
Jew	4	9	9	7	6	3	1	03/91	Hofmann et al.	423	235	
Jew	4	9	8	5	2	1	8	01/91	Devita	423	235	
Jew	4	9	7	8	5	1	4	12/90	Hofmann et al.	423	235	
Jew	4	9	2	7	6	1	2	05/90	Bowers	423	235	
Jew	4	9	0	8	1	9	3	03/90	Perry	423	235	
Jew	4	9	0	2	4	8	8	02/90	Epperly et al.	423	235	

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Jew	6	3	8	4	6	1	9A	03/88	Japan	—	—	YES	NO
Jew		5	4	5	8	6	3	01/79	Japan	—	—		
Jew	53	1	3	2	4	6	6	11/78	Japan	—	—		
		5	7	8	8	6	3	01/97	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Jew	Penetrante, et al.; "NOx REDUCTION BY COMPACT ELECTRON BEAM PROCESSING"; Proceedings of the 1995 Diesel Engine Emissions Reduction Workshop, Univ. of California, San Diego July 24-27; pgs. IV75-IV85
Jew	Fanick, et al.; "REDUCTION OF DIESEL NOx/PARTICULATE EMISSIONS USING A NON-THERMAL PLASMA"; Proceedings of the 1995 Diesel Engine Emissions Reduction Workshop, Univ. of California, San Diego July 24-27; pgs. V57-V67
Jew	Lyon "Controlling Nitrogen Oxides Emissions by a Noncatalytic Process"; Combust. Sci. and Tech., Vol. 25, No.3, 1987, pages 231-236.
Jew	Lyon and Hardy "Discovery and Development of Thermal DeNOx Process"; Ind. Eng. Chem. Fundam. Vol. 25, No.1, 1986, pages 19-24.
Jew	Caton and Siebers "Comparison of Nitric Oxide Removal by Cyanuric Acid and by Ammonia"; Combust. Sci. and Tech. Vol. 65, 1989, pages 277-293.
Jew	Dean, Hardy and Lyon "Kinetics and Mechanism of NH3 Oxidation"; Nineteenth Symposium on Combustion/The Combustion Institute, 1982, Pages 97-105.
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Jew	4	8	8	6	6	5	0	12/89	Perry	423	235	
Jew	4	8	7	7	5	9	1	10/89	Epperly et al.	423	235	
Jew	4	8	7	3	0	6	6	10/89	Epperly et al.	423	235	
Jew	4	8	6	3	7	0	5	09/89	Epperly et al.	423	235	
Jew	4	8	6	3	7	0	4	09/89	Epperly et al.	423	235	
Jew	4	8	6	1	5	6	7	08/89	Heap et al.	423	235	
Jew	4	8	5	1	2	0	1	07/89	Heap et al.	423	235	
Jew	4	8	4	4	8	7	8	07/89	Epperly et al.	423	235	
Jew	4	8	3	0	8	3	9	05/89	Epperly et al.	423	235	

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											YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Jew	Hurst "Improved Thermal DeNOx Process Verified by Field Testing"; Exxon Technology, Presented at Air Pollution Control Assn., Annual Meeting in San Francisco, California on 27 June 1984, pages 1-13.
Jew	Olsen J.C. "Unit Processes and Principles of Chemical Engineering" D. Van Nostrand Co., New York, pages 1-3, July 1932 (Patent Office library date).
Jew	Perry et al. "Chemical Engineers' Handbook," 5th Edition, 1973, McGraw-Hill Book Co., U.S.A. pages 22-4 to 22-7, 22-136 to 22-144. ISBN 0-07-049478-9.
Jew	Levenspiel O. "Chemical Reaction Engineering," 2nd Edition, 1972, John Wiley & Sons, New York, pages 56-60, 149-157, 226-231, 1972. ISBN 0-471-53016-6.

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JW	4	8	0	3	0	5	9	02/89	Sullivan et al.	423	235	
JW	4	8	0	0	0	6	8	01/89	Perry	422	173	
JW	4	7	8	0	2	8	9	10/88	Epperly et al.	423	235	
JW	4	7	7	7	0	2	4	10/88	Epperly et al.	423	235	
JW	4	7	7	0	8	6	3	09/88	Epperly et al.	423	235	
JW	4	7	5	1	0	6	5	06/88	Bower	423	235	
JW	4	7	3	1	2	3	1	03/88	Perry	423	235	
JW	4	7	1	9	0	9	2	01/88	Bowers	423	235	
JW	4	3	0	2	4	3	1	11/81	Atsukawa et al.	423	239	
JW	4	2	0	8	3	8	6	06/80	Arand et al.	423	235	

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Jw	4	1	1	5	5	1	5	09/78	Tenner et al.	423	235	
Jw	3	9	0	0	5	5	4	08/75	Lyon	423	235	
Jw	3	8	6	7	5	0	7	02/75	Myerson	423	212	
Jw	5	1	3	9	7	5	5	08/92	Seeker et al.	423	235	
Jw	5	2	8	6	4	6	7	02/94	Sun et al.	423	239.1	
Jw	5	2	4	0	5	7	5	08/93	Mathur et al.	204	177	
Jw	5	6	0	9	7	3	6	03/97	Yamamoto	204	164	
Jw	5	7	4	6	9	8	4	05/98	Hoard	204	164	
Jw	4	8	7	7	5	9	0	10/89	Epperly et al.	423	235	

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